```
RRRRRRRRRRRR        UUU            UUU NNN         NNN    000000000      FFFFFFFFFFFFFFF    FFFFFFFFFFFFFFF
RRRRRRRRRRRR        UUU            UUU NNN         NNN    000000000      FFFFFFFFFFFFFFF    FFFFFFFFFFFFFFF
RRRRRRRRRRRR        UUU            UUU NNN         NNN    000000000      FFFFFFFFFFFFFFF    FFFFFFFFFFFFFFF
RRR      RRR        UUU            UUU NNN         NNN  000         000  FFF                FFF
RRR      RRR        UUU            UUU NNN         NNN  000         000  FFF                FFF
RRR      RRR        UUU            UUU NNN         NNN  000         000  FFF                FFF
RRR      RRR        UUU            UUU NNNNNN      NNN  000         000  FFF                FFF
RRR      RRR        UUU            UUU NNNNNN      NNN  000         000  FFF                FFF
RRR      RRR        UUU            UUU NNNNNN      NNN  000         000  FFF                FFF
RRRRRRRRRRRR        UUU            UUU NNN   NNN   NNN  000         000  FFFFFFFFFFF        FFFFFFFFFFF
RRRRRRRRRRRR        UUU            UUU NNN   NNN   NNN  000         000  FFFFFFFFFFF        FFFFFFFFFFF
RRRRRRRRRRRR        UUU            UUU NNN   NNN   NNN  000         000  FFFFFFFFFFF        FFFFFFFFFFF
RRR   RRR           UUU            UUU NNN      NNNNNN  000         000  FFF                FFF
RRR    RRR          UUU            UUU NNN      NNNNNN  000         000  FFF                FFF
RRR     RRR         UUU            UUU NNN         NNN  000         000  FFF                FFF
RRR      RRR        UUU            UUU NNN         NNN  000         000  FFF                FFF
RRR       RRR       UUU            UUU NNN         NNN  000         000  FFF                FFF
RRR        RRR      UUUUUUUUUUUUUUUUUU NNN         NNN    000000000      FFF                FFF
RRR         RRR     UUUUUUUUUUUUUUUUUU NNN         NNN    000000000      FFF                FFF
RRR          RRR    UUUUUUUUUUUUUUUUUU NNN         NNN    000000000      FFF                FFF
```

```
NN       NN    000000   TTTTTTTTTT  EEEEEEEEEE
NN       NN    000000   TTTTTTTTTT  EEEEEEEEEE
NN       NN   00    00      TT      EE
NN       NN   00    00      TT      EE
NNNN     NN   00    00      TT      EE
NNNN     NN   00    00      TT      EE
NN  NN   NN   00    00      TT      EEEEEEE
NN  NN   NN   00    00      TT      EEEEEEE
NN    NNNN    00    00      TT      EE
NN    NNNN    00    00      TT      EE
NN       NN   00    00      TT      EE          ....
NN       NN   00    00      TT      EE          ....
NN       NN    000000       TT      EEEEEEEEEE  ....
NN       NN    000000       TT      EEEEEEEEEE  ....
```

```
LL            IIIIII    SSSSSSSS
LL            IIIIII    SSSSSSSS
LL              II    SS
LL              II    SS
LL              II    SS
LL              II    SS
LL              II      SSSSSS
LL              II      SSSSSS
LL              II          SS
LL              II          SS
LL              II          SS
LL              II          SS
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
    1    0001  0  MODULE NOTE (                            !
    2    0002  0              IDENT = 'V04-000'
    3  P 0003  0  %BLISS32[,
    4  P 0004  0          ADDRESSING_MODE(EXTERNAL=LONG_RELATIVE,NONEXTERNAL=LONG_RELATIVE)
    5    0005  0          ]
    6    0006  0                  ) =
    7    0007  1  BEGIN
    8    0008  1
    9    0009  1  !
   10    0010  1  !*******************************************************************************
   11    0011  1  !*                                                                             *
   12    0012  1  !* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                     *
   13    0013  1  !* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                      *
   14    0014  1  !* ALL RIGHTS RESERVED.                                                        *
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   17    0017  1  !* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE              *
   18    0018  1  !* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER          *
   19    0019  1  !* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY        *
   20    0020  1  !* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY            *
   21    0021  1  !* TRANSFERRED.                                                                *
   22    0022  1  !*                                                                             *
   23    0023  1  !* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE        *
   24    0024  1  !* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT            *
   25    0025  1  !* CORPORATION.                                                                *
   26    0026  1  !*                                                                             *
   27    0027  1  !* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS         *
   28    0028  1  !* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                     *
   29    0029  1  !*                                                                             *
   30    0030  1  !*                                                                             *
   31    0031  1  !*******************************************************************************
   32    0032  1  !
   33    0033  1
   34    0034  1  !++
   35    0035  1  ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
   36    0036  1  !
   37    0037  1  ! ABSTRACT: Processes the .NOTE command
   38    0038  1  !
   39    0039  1  !
   40    0040  1  ! ENVIRONMENT: Transportable
   41    0041  1  !
   42    0042  1  ! AUTHOR: R.W.Friday      CREATION DATE: June, 1978
   43    0043  1  !
```

```
  45    0044  1 %SBTTL 'Revision History'
  46    0045  1 !
  47    0046  1 ! MODIFIED BY:
  48    0047  1 !
  49    0048  1 !     006     KAD00006        Keith Dawson    9-Jun-1983
  50    0049  1 !             Fix .NOTE margins to be more sensible. This is motivated by
  51    0050  1 !             the fact that notes come out looking centered on .PS, instead
  52    0051  1 !             of on .LM-.RM as desired. Also, changed the number of
  53    0052  1 !             lines before a note to 1 from 2.
  54    0053  1 !
  55    0054  1 !     005     KAD00005        Keith Dawson    07-Mar-1983
  56    0055  1 !             Global edit of all modules. Updated module names, idents,
  57    0056  1 !             copyright dates. Changed require files to BLISS library.
  58    0057  1 !
  59    0058  1 !--
```

```
     61     0059  1  %SBTTL 'Module Level Declarations'
     62     0060  1  !
     63     0061  1  ! TABLE OF CONTENTS:
     64     0062  1  !
     65     0063  1  !
     66     0064  1  ! INCLUDE FILES:
     67     0065  1  !
     68     0066  1
     69     0067  1  LIBRARY 'NXPORT:XPORT';                 ! XPORT Library
     70     0068  1  REQUIRE 'REQ:RNODEF';                   ! RUNOFF variant definitions
     71     0199  1
     72   U 0200  1  %IF DSRPLUS %THEN
     73   U 0201  1  LIBRARY 'REQ:DPLLIB';                   ! DSRPLUS BLISS Library
     74     0202  1  %ELSE
     75     0203  1  LIBRARY 'REQ:DSRLIB';                   ! DSR BLISS Library
     76     0204  1  %FI
     77     0205  1
     78     0206  1  !
     79     0207  1  ! MACROS:
     80     0208  1  !
     81     0209  1  !
     82     0210  1  ! EQUATED SYMBOLS:
     83     0211  1  !
     84     0212  1
     85     0213  1  LITERAL
     86     0214  1      skip_before_note = 1,               !Spacing before "NOTE"
     87     0215  1                                          ! ... changed from 2 by KAD, 6-10-1983.
     88     0216  1      skip_after_note = 1;                !Spacing after "NOTE"
     89     0217  1  !
     90     0218  1  ! OWN STORAGE:
     91     0219  1  !
     92     0220  1  !
     93     0221  1  ! EXTERNAL REFERENCES:
     94     0222  1  !
     95     0223  1
     96     0224  1  EXTERNAL
     97     0225  1      gca : gca_definition,
     98     0226  1      pdt : ref pdt_definition,
     99     0227  1      sca : sca_definition;
    100     0228  1
    101     0229  1  !
    102     0230  1
    103     0231  1  EXTERNAL ROUTINE
    104     0232  1      centxt,
    105     0233  1      gcskip,
    106     0234  1      getlin,
    107     0235  1      gtpc,
    108     0236  1      stkfrm;
    109     0237  1
```

```
 111   0238  1  GLOBAL ROUTINE NOTE (HANDLER_CODE) : NOVALUE =
 112   0239  1
 113   0240  1  !++
 114   0241  1  ! FUNCTIONAL DESCRIPTION:
 115   0242  1  !
 116   0243  1  !       See the ABSTRACT, above.
 117   0244  1  !
 118   0245  1  ! FORMAL PARAMETERS:
 119   0246  1  !
 120   0247  1  !       HANDLER_CODE indicates which command is to be processed.
 121   0248  1  !
 122   0249  1  ! IMPLICIT INPUTS:        None
 123   0250  1  !
 124   0251  1  ! IMPLICIT OUTPUTS:       None
 125   0252  1  !
 126   0253  1  ! ROUTINE VALUE:
 127   0254  1  ! COMPLETION CODES:       None
 128   0255  1  !
 129   0256  1  ! SIDE EFFECTS: None
 130   0257  1  !
 131   0258  1  !--
 132   0259  2      BEGIN
 133   0260  2      LOCAL
 134   0261  2          margin_adjust,          !How much to adjust the margins.
 135   0262  2          skip;
 136   0263  2
 137   0264  2      IF NOT stkfrm (.handler_code)
 138   0265  2      THEN
 139   0266  2          RETURN;                          !Quit if stack overflow
 140   0267  2
 141   0268  2      skip = skip_before_note * .sca_spacing;
 142   0269  2      gtpc (.skip + (skip_after_note + .pdt_tp + 1)*.sca_spacing);
 143   0270  2      gcskip (max (0, .skip - (.sca_spacing - 1)));
 144   0271  2      !Set up formatting definitions
 145   0272  2      sca_fill = true;
 146   0273  2      sca_justify = .gca_autojust or .sca_justify;        !Turn on justification unless user has said .NAJ.
 147   0274  2      sca_crock = .sca_justify;
 148   0275  2      !
 149   0276  2      ! Margin adjustment.
 150   0277  2
 151   0278  2      IF (.sca_rm - .sca_lm) GTR 60
 152   0279  2      THEN
 153   0280  2          margin_adjust = .gca_note_prim  ! (8)
 154   0281  2      ELSE
 155   0282  2          margin_adjust = .gca_note_alt;  ! (4)
 156   0283  2
 157   0284  2      !Defensive margin computation in case margins are very restrictive
 158   0285  2
 159   0286  2      IF (.sca_lm + .margin_adjust) LSS .sca_rm
 160   0287  2      THEN
 161   0288  2          sca_lm = .sca_lm + .margin_adjust;
 162   0289  2
 163   0290  2      IF (.sca_rm - .margin_adjust) GTR .sca_lm
 164   0291  2      THEN
 165   0292  2          sca_rm = .sca_rm - .margin_adjust;
 166   0293  2
 167   0294  2  ! End of margin-adjustment computations.
```

```
: 168      0295  2
: 169      0296  2  !Determine if text was given on the .NOTE command.
: 170      0297  2  !
: 171      0298  2      IF NOT centxt (ch$ptr (uplit ('NOTE')), 4)
: 172      0299  2      THEN
: 173      0300  2      !Text after ".NOTE".  Fetch and output text centered.
: 174      0301  2          getlin (true, false, 0, true);
: 175      0302  2
: 176      0303  2      !Prepare for the text that will probably come.
: 177      0304  2      gcskip (.sca_spacing);
: 178      0305  2
: 179      0306  1      END;                                    !End of NOTE
```

```
                                           .TITLE   NOTE
                                           .IDENT   \V04-000\

                                           .PSECT   $PLIT$,NOWRT,NOEXE,2

              45  54  4F  4E  00000 P.AAA:  .ASCII   \NOTE\                           ;

                                           .EXTRN   GCA, PDT, SCA, CENTXT
                                           .EXTRN   GCSKIP, GETLIN, GTPC
                                           .EXTRN   STKFRM

                                           .PSECT   $CODE$,NOWRT,2

                               003C 00000  .ENTRY   NOTE, Save R2,R3,R4,R5          ; 0238
              55 00000000G EF  9E 00002    MOVAB    GCSKIP, R5
              54 00000000G EF  9E 00009    MOVAB    SCA+124, R4
                          04  AC DD 00010  PUSHL    HANDLER_CODE                    ; 0264
     00000000G EF             01 FB 00013  CALLS    #1, STKFRM
              01             50 E8 0001A   BLBS     R0, 1$
                             04 0001D      RET
              52       00  B4 D0 0001E 1$: MOVL     @SCA+124, SKIP                  ; 0268
              50 00000000G EF  D0 00022    MOVL     PDT, R0                         ; 0269
     50       08  A0         02 C1 00029   ADDL3    #2, 8(R0), R0
              50       00  B4 C4 0002E     MULL2    @SCA+124, R0
                           6042 9F 00032   PUSHAB   (R0)[SKIP]
     00000000G EF             01 FB 00035  CALLS    #1, GTPC
              52       00  B4 C2 0003C     SUBL2    @SCA+124, R2                    ; 0270
              52             52 D6 00040   INCL     R2
                           52 DD 00042     PUSHL    R2
                        02 18 00044        BGEQ     2$
                        6E D4 00046        CLRL     (SP)
              65          01 FB 00048 2$:  CALLS    #1, GCSKIP
              EC       B4   01 D0 0004C    MOVL     #1, @SCA+104                    ; 0272
              E8 B4 00000000G FF C8 0004F  BISL2    @GCA+16, @SCA+100               ; 0273
              F4 B4          E8 B4 D0 00057 MOVL     @SCA+100, @SCA+112             ; 0274
              51          FC B4 D0 0C05C   MOVL     @SCA+120, R1                    ; 0278
              52          F8 A4 D0 00060   MOVL     SCA+116, R2
     50          62       3C C1 00064      ADDL3    #60, (R2), R0
              50          51 D1 00068      CMPL     R1, R0
                        09 15 0006B        BLEQ     3$
              50 00000000G EF D0 0006D     MOVL     GCA+148, MARGIN_ADJUST          ; 0280
                        07 11 00074        BRB      4$
              50 00000000G EF D0 00076 3$: MOVL     GCA+152, MARGIN_ADJUST          ; 0282
```

```
            53              62        50 C1 0007D 4$:    ADDL3    MARGIN_ADJUST, (R2), R3       ; 0286
                            51        53 D1 00081         CMPL     R3, R1
                                      03 18 00084         BGEQ     5$
                            62        50 C0 00086         ADDL2    MARGIN_ADJUST, (R2)          ; 0288
                            51        50 C2 00089 5$:    SUBL2    MARGIN_ADJUST, R1            ; 0290
                            62        51 D1 0008C         CMPL     R1, (R2)
                                      04 15 0008F         BLEQ     6$
            FC  B4                    50 C2 00091         SUBL2    MARGIN_ADJUST, aSCA+120      ; 0292
                                      04 DD 00095 6$:    PUSHL    #4                           ; 0298
            00000000'                 EF 9F 00097         PUSHAB   P.AAA
        00000000G EF                  02 FB 0009D         CALLS    #2, CENTXT
                            0D        50 E8 000A4         BLBS     R0, 7$
                                      01 DD 000A7         PUSHL    #1                           ; 0301
                                      7E 7C 000A9         CLRQ     -(SP)
                                      01 DD 000AB         PUSHL    #1
        00000000G EF                  04 FB 000AD         CALLS    #4, GETLIN
                            00 B4 DD 000B4 7$:    PUSHL    aSCA+124                     ; 0304
                            65        01 FB 000B7         CALLS    #1, GCSKIP
                                      04 000BA         RET                          ; 0306
```

; Routine Size: 187 bytes,   Routine Base: $CODE$ + 0000

```
;  180        0307 1
;  181        0308 1 END                                        !End of module
;  182        0309 0 ELUDOM
```

                    PSECT SUMMARY

```
;       Name                Bytes                    Attributes
;
; $PLIT$                        4 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
; $CODE$                      187 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
```

                    Library Statistics

| File | -------- Symbols -------- | | | Pages Mapped | Processing Time |
	Total	Loaded	Percent		
_255DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.2
_255DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	18	1	86	00:00.3

;   COMMAND QUALIFIERS

```
;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:NOTE/OBJ=OBJ$:NOTE MSRC$:NOTE/UPDATE=(ENH$:NOTE)

; Size:           187 code + 4 data bytes
; Run Time:          00:05.0
; Elapsed Time:      00:12.7
; Lines/CPU Min:     3685
; Lexemes/CPU-Min: 14922
; Memory Used:   56 pages
; Compilation Complete
```